



February 26, 2016

Tom Moe USS Corporation P.O. Box 417 Mountain Iron, MN 55768

RE: Project: NPDES-TB Wk3

Pace Project No.: 1261175

Dear Tom Moe:

Enclosed are the analytical results for sample(s) received by the laboratory on February 17, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Heather R Zika

Haller Zto

heather.zika@pacelabs.com

Project Manager

Enclosures

cc: Terri Sabetti, NTS





315 Chestnut Street Virginia, MN 55792 (218) 742-1042



CERTIFICATIONS

Project: NPDES-TB Wk3

Pace Project No.: 1261175

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

525 N 8th Street, Salina, KS 67401 A2LA Certification #: 2926.01 Alaska Certification #: UST-078 Alaska Certification #MN00064 Alabama Certification #40770 Arizona Certification #: AZ-0014 Arkansas Certification #: 88-0680

California Certification #: 01155CA Colorado Certification #Pace

Connecticut Certification #: PH-0256 EPA Region 8 Certification #: 8TMS-L Florida/NELAP Certification #: E87605

Guam Certification #:14-008r Georgia Certification #: 959 Georgia EPD #: Pace

Idaho Certification #: MN00064 Hawaii Certification #MN00064 Illinois Certification #: 200011 Indiana Certification#C-MN-01 Iowa Certification #: 368 Kansas Certification #: E-10167

Kentucky Dept of Envi. Protection - DW #90062 Kentucky Dept of Envi. Protection - WW #:90062

Louisiana DEQ Certification #: 3086 Louisiana DHH #: LA140001 Maine Certification #: 2013011 Maryland Certification #: 322

Michigan DEPH Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: Pace Montana Certification #: MT0092 Nevada Certification #: MN_00064 Nebraska Certification #: Pace New Jersey Certification #: MN-002 New York Certification #: 11647 North Carolina Certification #: 530

North Carolina State Public Health #: 27700

North Dakota Certification #: R-036

Ohio EPA #: 4150 Ohio VAP Certification #: CL101 Oklahoma Certification #: 9507 Oregon Certification #: MN200001 Oregon Certification #: MN300001 Pennsylvania Certification #: 68-00563

Puerto Rico Certification Saipan (CNMI) #:MP0003 South Carolina #:74003001 Texas Certification #: T104704192 Tennessee Certification #: 02818 Utah Certification #: MN000642013-4 Virginia DGS Certification #: 251 Virginia/VELAP Certification #: Pace Washington Certification #: C486 West Virginia Certification #: 382 West Virginia DHHR #:9952C Wisconsin Certification #: 999407970

Virginia Minnesota Certification ID's 315 Chestnut Street, Virginia, MN 55792 Alaska Certification #MN01084

Arizona Department of Health Certification #AZ0785 Minnesota Dept of Health Certification #: 027-137-445

North Dakota Certification: # R-203

Wisconsin DNR Certification #: 998027470 WA Department of Ecology Lab ID# C1007

Nevada DNR #MN010842015-1

Oklahoma Department of Environmental Quality





SAMPLE SUMMARY

Project: NPDES-TB Wk3

Pace Project No.: 1261175

Lab ID	Sample ID	Matrix	Date Collected	Date Received			
1261175001	SD 001 (Seep 020)	Water	02/17/16 11:00	02/17/16 13:55			





SAMPLE ANALYTE COUNT

Project: NPDES-TB Wk3

Pace Project No.: 1261175

				Analytes	
Lab ID	Sample ID	Method	Analysts	Reported	Laboratory
1261175001	SD 001 (Seep 020)	EPA 1664 TPH	MBL	1	PASI-M
		USGS I-3765	BEM	1	PASI-V

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ANALYTICAL RESULTS

Project: NPDES-TB Wk3

Pace Project No.: 1261175

Date: 02/26/2016 02:40 PM

Sample: SD 001 (Seep 020)	Lab ID:	1261175001	Collecte	d: 02/17/16	3 11:00	Received: 02	trix: Water		
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH	1664 TPH								
Total Petroleum Hydrocarbons 0.61J mg/l		mg/L	5.1	0.38	1		02/24/16 10:40		В
USGS I-3765 TSS	Analytical	S I-3765							
Total Suspended Solids 3.2 mg/L		1.0	1.0	1		02/18/16 13:31			



QUALITY CONTROL DATA

NPDES-TB Wk3 Project:

1261175

Pace Project No.:

QC Batch: QC Batch Method: WET/46574

EPA 1664 TPH

Analysis Method:

EPA 1664 TPH

Analysis Description:

1664 SGT-HEM, TPH

Associated Lab Samples: 1261175001

Parameter

LABORATORY CONTROL SAMPLE:

Parameter

METHOD BLANK: 2196783

Matrix: Water

Associated Lab Samples:

1261175001

Blank

Reporting Limit

5.0

Units

mg/L

Units

mg/L

Units

mg/L

mg/L

Result 0.40J MDL

Analyzed 02/24/16 09:40 Qualifiers

Total Petroleum Hydrocarbons

2196784

Spike Conc.

20

LCS Result

LCS % Rec % Rec Limits

0.37

Qualifiers

Total Petroleum Hydrocarbons

Total Petroleum Hydrocarbons

Total Petroleum Hydrocarbons

MATRIX SPIKE SAMPLE:

2197325

Parameter

Parameter

1261262002 Result

Result

Spike Conc.

15.1

MS Result

RPD

76

13.4

MS % Rec

64-132

% Rec Limits

Qualifiers

SAMPLE DUPLICATE: 2197324

Units

1261262001

0.76J

0.41J

Dup Result

1.1J

20.4

Max RPD

63

34

Qualifiers

64-132 M1

Date: 02/26/2016 02:40 PM

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

(218) 742-1042



QUALITY CONTROL DATA

Project: NPDES-TB Wk3

Pace Project No.: 1261175

QC Batch: WET/22613 Analysis Method: USGS I-3765

QC Batch Method: USGS I-3765 Analysis Description: USGS I-3765 Total Suspended Solids

Associated Lab Samples: 1261175001

METHOD BLANK: 289409 Matrix: Water

Associated Lab Samples: 1261175001

Blank Reporting
Parameter Units Result Limit MDL Analyzed Qualifiers

Total Suspended Solids mg/L ND 1.0 02/18/16 13:31

LABORATORY CONTROL SAMPLE: 289410

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers **Total Suspended Solids** mg/L 239 210 88 80-120

SAMPLE DUPLICATE: 289411

1261071002 Dup Max **RPD RPD** Parameter Units Result Result Qualifiers 156 3 10 Total Suspended Solids 152 mg/L

SAMPLE DUPLICATE: 289412

Date: 02/26/2016 02:40 PM

1261100002 Dup Max RPD RPD Parameter Units Result Result Qualifiers 124 Total Suspended Solids mg/L 128 3 10

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALIFIERS

Project: NPDES-TB Wk3

Pace Project No.: 1261175

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis
PASI-V Pace Analytical Services - Virginia

BATCH QUALIFIERS

Batch: WET/46574

[BE] Batch extracted by solid phase extraction (SPE).

ANALYTE QUALIFIERS

Date: 02/26/2016 02:40 PM

B Analyte was detected in the associated method blank.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: NPDES-TB Wk3

Pace Project No.: 1261175

Date: 02/26/2016 02:40 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
1261175001	SD 001 (Seep 020)	EPA 1664 TPH	WET/46574		
1261175001	SD 001 (Seep 020)	USGS I-3765	WET/22613		

Section A

Company: USS Corporation
Address: P.O. Box 417

Required Client Information:

Mt. Iron, MN 55768

equested Due Date:

ITEM #

SD 001 (Seep 020)

CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCLIMENT All relevant fields must be completed accuracy.

W0#:1261175

															001 (Seep 020)	One Character per box. Wise (A-Z, 0-91, -) Sample lds must be unique Tissue	SAMPLE ID Shiring Water Sample ID Oil	MATRIX	תפ טמיפ:	Fax		3	on	ંર
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Pace Analytical ®

Document Name:

Sample Condition Upon Receipt Form

Document No.: F-VM-C-001-Rev.09 Document Revised: 23Feb2015

Page 1 of 1

Issuing Authority:

Pace Virginia, Minnesota Quality Office

WO#	:126117	7 5
1261175		

Sample Condition Client Name: Project #: **Upon Receipt** Courier: Fed Ex USPS Client Commercial Pace Other: Tracking Number: Proj. Name: No Ø№ Seals Intact? Yes Packing Material: Bubble Wrap None Bubble Bags Other: □No Thermometer Used: 140792808 Samples on ice, cooling process has begun Type of Ice: Wet ☐Blue ☐None Cooler Temp Read °C: 3. Cooler Temp Corrected °C: 3. Biological Tissue Frozen?
Temp should be above freezing to 6°C Correction Factor: 0.3 Date and Initials of Person Examining Contents: Cooler Temp Read *C: 3. (Biological Tissue Frozen? Yes Comments: Chain of Custody Present? No **Z**Yes □N/A ØYes Chain of Custody Filled Out? □No □N/A 2. [Z]Yes Chain of Custody Relinquished? No 3. □N/A Sampler Name and Signature on COC? ØYes □No □N/A I 4. Samples Arrived within Hold Time? [Z]Yes □No ∐N/A Short Hold Time Analysis (<72 hr)? **□**Yes ZNo □n/a 6. **No** Rush Turn Around Time Requested? Yes □N/A Sufficient Volume? Yes No □N/A 8. ⊠yes Correct Containers Used? □No □N/A 9. -Pace Containers Used? Yes □No □N/A Containers Intact? **Z**Yes □No □N/A 11. Note if sediment is visible in the dissolved containers. Filtered Volume Received for Dissolved Tests? Yes □No ZN/A Sample Labels Match COC? **Yes** □No □N/A 12. -Includes Date/Time/ID/Analysis Matrix: See pH log for results and additional preservation All containers needing acid/base preservation will be □No ☑N/A ___Yes documentation checked and documented in the pH logbook. Yes □No **Ø**N/A Headspace in Methyl Mercury Container 13. Headspace in VOA Vials (>6mm)? Yes □No ☑N/A 14. Trip Blank Present? Yes No ☑N/A 15. Trip Blank Custody Seals Present? Yes □No [Z]N/A Pace Trip Blank Lot # (if purchased): Field Data Required? Yes No CLIENT NOTIFICATION/RESOLUTION Person Contacted: Date/Time: Comments/Resolution: FECAL WAIVER ON FILE Y TEMPERATURE WAIVER ON FILE

Project Manager Review: Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)



Pace Analytical Services, Inc. 315 Chestnut St. PO Box 1212 Virginia, MN 55792 Phone (218) 735-6700 Fax (218) 742-1010 Heather R Zika ltem. Workorder: 1261175 Cooler Temperature on Receipt Transfers SD 001 (Seep 020) Sample ID Released By Workorder Name: NPDES-TB Wk3 PS У Sample Collect
Date/Time റ് 2/17/2016 11:00 Subcontract To 2//s/lecue Date/Time Minneapolis, MN 55414 Phone (612) 607-1700 Suite 200 Pace Analytical Minnesota 1700 Elm Street Custody Seal Lab ID 1261175001 Received By ≺ or Water Matrix Z HCL Owner Received Date: Received on Ice Date/Time TRPH 1664 Ş I-flagged to Reported 1 2/17/2016 Results Requested By: z Samples Intact Y or Comments かけて LAB USE ONLY 3/2/2016 Z

Page 1 of 1